

## CLAIMS

1. A video information editing method comprising the steps of:

delimiting at timing of a delimiting instruction a regular edition video, constituted by continuous dynamic images recorded along with recording position information or time lapse information, into shots as units of dynamic images or into scenes each containing at least one shot with the recording position information or the time lapse information associated with the shots or scenes;

preparing an evaluation value of each of the shots or each of the scenes on the basis of the information provided corresponding to each of the shots or each of the scenes; and

selecting from the regular edition video the shots or the scenes such that each of the evaluation values of the shots or the scenes satisfies a predetermined condition.

Sub A1 7 2. The video information editing method as claimed in claim 1, wherein if the sum of the calculated time exceeds a predetermined video time, the predetermined condition is modified and the processing is repeated until the sum of the time is matched with the predetermined video time.

3. The video information editing method as claimed in claim 1, wherein the predetermined condition is that the absolute value of the evaluation value related to the shot or the scene reaches a predetermined threshold value.

4. The video information editing method as claimed in claim 3, wherein with

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

5. The video information editing method as claimed in claim 4, wherein the threshold value is set in accordance with the upward slope from the valley to the adjacent peak or the downward slope from the peak to the adjacent valley.

7. The video information editing method as claimed in claim 1, wherein the shot evaluation value is a value obtained by adding a value obtained by carrying out

predetermined weighting on each of the video characteristic items including at least the presence of a speech, the volume of a predetermined level or higher, the appearance of a specified actor/actress, or the special picture effect in the corresponding part of the regular edition video, with respect to each of the items.

8. The video information editing method as claimed in claim 7, wherein with respect to the shot evaluation value, the weighting value on the item related to the appearance of a specified actor/actress is made greater than the weighting values on the other items.

9. A video information editing method comprising the steps of:

delimiting at timing of a delimiting instruction a regular edition video, constituted by continuous dynamic images recorded along with recording position information or time lapse information, into shots as units of dynamic images or into scenes each containing at least one shot with the recording position information or the time lapse information associated with the shots or scenes;

preparing an evaluation value of each of the scenes on the basis of the information provided corresponding to each of the scenes;

selecting from the regular edition video the scenes such that each of the evaluation values of the scenes satisfies a predetermined first condition;

preparing an evaluation value of each of the shots included in each of the selected scenes on the basis of the information provided corresponding to each of the shots; and

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10. The video information editing method as claimed in claim 9, wherein if the length of a video produced by connecting selected shots exceeds a predetermined video time, at least one of the predetermined first condition and second condition is modified and the processing is repeated until the length of the video becomes equal to the predetermined video time.

wherein with respect to the integration value of the evaluation value related to each of the scenes along the scene transition, the scene is a peak scene when the continuous increase of the integration value up to a scene exceeds a predetermined first gap value and the absolute value of the continuous decrease of the integration value after that scene exceeds a predetermined second gap value,

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

the threshold value is determined for each area between the peak or valley scene and the adjacent valley or peak scene.

12. The video information editing method as claimed in claim 9, wherein with respect to the integration value of the evaluation value related to each of the scenes along the scene transition, the scene is a peak scene when the continuous increase of the integration value up to a scene exceeds a predetermined first gap value and the absolute value of the continuous decrease of the integration value after that scene exceeds a predetermined second gap value,

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

the predetermined first condition is applied to the scenes on the upward slope to the peak from the adjacent valley before the peak and the scenes on the downward slope immediately after the peak, on the basis of the magnitude of the increase of the integration value of the valley scene and the adjacent peak scene after the valley, or on the basis of the ranking of the magnitude of the increase of the integration value.

13. The video information editing method as claimed in claim 11, wherein the threshold value is set in accordance with the upward slope from the valley to the adjacent peak or the downward slope from the peak to the adjacent valley.

14. The video information editing method as claimed in claim 11, wherein when each of the evaluation values is formed by a positive or negative value, the absolute value of the threshold value applied to the positive evaluation value is made equal to

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or smaller than the absolute value of the threshold value applied to the negative evaluation value.

15. The video information editing method as claimed in claim 9, wherein the shot evaluation value is a value obtained by adding a value obtained by carrying out predetermined weighting on each of the video characteristic items including at least the presence of a speech, the volume of a predetermined level or higher, the appearance of a specified actor/actress, or the special picture effect in the corresponding part of the regular edition video, with respect to each of the items.

16. The video information editing method as claimed in claim 15, wherein with respect to the shot evaluation value, the weighting value on the item related to the appearance of a specified actor/actress is made greater than the weighting values on the other items.

17. A video information editing method comprising the steps of:

delimiting at timing of a delimiting instruction a regular edition video, constituted by continuous dynamic images recorded along with recording position information or time lapse information, into shots as units of dynamic images or into scenes each containing at least one shot with the recording position information or the time lapse information associated with the shots or scenes;

preparing an evaluation value of each of the shots or each of the scenes on the basis of the information provided corresponding to each of the shots or each of the scenes; and

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selecting from the regular edition video the shots or the scenes such that each of the evaluation values of the shots or the scenes satisfies a predetermined condition.

18. The video information editing method as claimed in claim 17, wherein the sum of the time of the selected shots or scenes is calculated on the basis of the recording position information or the time lapse information, and if the sum of the calculated time exceeds a predetermined video time, the predetermined condition is modified and the processing is repeated until the sum of the time is matched with the predetermined video time.

19. The video information editing method as claimed in claim 17, wherein the predetermined condition is that the absolute value of the evaluation value related to the shot or the scene reaches a predetermined threshold value.

20. The video information editing method as claimed in claim 17, wherein the predetermined condition is that the absolute value of the evaluation related to the scene reaches a predetermined threshold value, and

wherein with respect to the integration value of the evaluation value related to each of the scenes along the scene transition, the scene is a peak scene when the continuous increase of the integration value up to a scene exceeds a predetermined first gap value and the absolute value of the continuous decrease of the integration value after that scene exceeds a predetermined second gap value,

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value

and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

the threshold value is determined for each area between the peak or valley scene and the adjacent valley or peak scene.

21. The video information editing method as claimed in claim 20, wherein the threshold value is set in accordance with the upward slope from the valley to the adjacent peak or the downward slope from the peak to the adjacent valley.

22. The video information editing method as claimed in claim 19, wherein when each of the evaluation values is formed by a positive or negative value, the absolute value of the threshold value applied to the positive evaluation value is made equal to or smaller than the absolute value of the threshold value applied to the negative evaluation value.

23. The video information editing method as claimed in claim 17, wherein the shot evaluation value is a value obtained by adding a value obtained by carrying out predetermined weighting on each of the video characteristic items including at least the presence of a speech, the volume of a predetermined level or higher, the appearance of a specified actor/actress, or the special picture effect in the corresponding part of the regular edition video, with respect to each of the items.

24. The video information editing method as claimed in claim 23, wherein with respect to the shot evaluation value, the weighting value on the item related to the appearance of a specified actor/actress is made greater than the weighting values on

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the other items.

25. A video information editing method comprising the steps of:

delimiting at timing of a delimiting instruction a regular edition video, constituted by continuous dynamic images recorded along with recording position information or time lapse information, into shots as units of dynamic images or into scenes each containing at least one shot with the recording position information or the time lapse information associated with the shots or scenes;

preparing an evaluation value of each of the scenes on the basis of the information provided corresponding to each of the scenes;

selecting from the regular edition video the scenes such that each of the evaluation values of the scenes satisfies a predetermined first condition;

preparing an evaluation value of each of the shots included in each of the selected scenes on the basis of the information provided corresponding to each of the shots; and

selecting the shots such that each of the evaluation values of the shots satisfies a predetermined second condition.

26. The video information editing method as claimed in claim 25, wherein if the length of a video produced by connecting selected shots exceeds a predetermined video time, at least one of the predetermined first condition and second condition is modified and the processing is repeated until the length of the video becomes equal to the predetermined video time.

27. The video information editing method as claimed in claim 25, wherein the predetermined first condition is that the absolute value of the scene evaluation value related to the scene reaches a predetermined threshold value, and

wherein with respect to the integration value of the evaluation value related to each of the scenes along the scene transition, the scene is a peak scene when the continuous increase of the integration value up to a scene exceeds a predetermined first gap value and the absolute value of the continuous decrease of the integration value after that scene exceeds a predetermined second gap value,

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

the threshold value is determined for each area between the peak or valley scene and the adjacent valley or peak scene.

28. The video information editing method as claimed in claim 25, wherein with respect to the integration value of the evaluation value related to each of the scenes along the scene transition, the scene is a peak scene when the continuous increase of the integration value up to a scene exceeds a predetermined first gap value and the absolute value of the continuous decrease of the integration value after that scene exceeds a predetermined second gap value,

while the scene is a valley scene when the absolute value of the continuous

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decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

the predetermined first condition is applied to the scenes on the upward slope to the peak from the adjacent valley before the peak and the scenes on the downward slope immediately after the peak, on the basis of the magnitude of the increase of the integration value of the valley scene and the adjacent peak scene after the valley, or on the basis of the ranking of the magnitude of the increase of the integration value.

29. The video information editing method as claimed in claim 27, wherein the threshold value is set in accordance with the upward slope from the valley to the adjacent peak or the downward slope from the peak to the adjacent valley.

30. The video information editing method as claimed in claim 27, wherein when each of the evaluation values is formed by a positive or negative value, the absolute value of the threshold value applied to the positive evaluation value is made equal to or smaller than the absolute value of the threshold value applied to the negative evaluation value.

31. The video information editing method as claimed in claim 25, wherein the shot evaluation value is a value obtained by adding a value obtained by carrying out predetermined weighting on each of the video characteristic items including at least the presence of a speech, the volume of a predetermined level or higher, the appearance of a specified actor/actress, or the special picture effect in the corresponding part of

the regular edition video, with respect to each of the items.

32. The video information editing method as claimed in claim 31, wherein with respect to the shot evaluation value, the weighting value on the item related to the appearance of a specified actor/actress is made greater than the weighting values on the other items.

33. A video information editing device comprising:

means for delimiting at timing of a delimiting instruction a regular edition video, constituted by continuous dynamic images recorded along with recording position information or time lapse information, into shots as units of dynamic images or into scenes each containing at least one shot with the recording position information or the time lapse information associated with the shots or scenes;

means for preparing an evaluation value of each of the shots or each of the scenes on the basis of the information provided corresponding to each of the shots or each of the scenes; and

means for selecting from the regular edition video the shots or the scenes such that each of the evaluation values of the shots or the scenes satisfies a predetermined condition.

34. The video information editing device as claimed in claim 33, further comprising means for calculating the sum of the time of the selected shots or scenes, and means for, if the sum of the calculated time exceeds a predetermined video time, modifying the predetermined condition and repeating the processing until the sum of the time is

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matched with the predetermined video time.

36. The video information editing device as claimed in claim 33, wherein the predetermined condition is that the absolute value of the evaluation value related to the scene reaches a predetermined threshold value, and

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

37. The video information editing device as claimed in claim 36, wherein the threshold value is set in accordance with the upward slope from the valley to the adjacent peak or the downward slope from the peak to the adjacent valley.

means for delimiting at timing of a delimiting instruction a regular edition video, constituted by continuous dynamic images recorded along with recording position information or time lapse information, into shots as units of dynamic images or into scenes each containing at least one shot with the recording position information or the time lapse information associated with the shots or scenes;

means for preparing an evaluation value of each of the scenes on the basis of the information provided corresponding to each of the scenes;

means for selecting from the regular edition video the scenes such that each of the evaluation values of the scenes satisfies a predetermined first condition;

means for preparing an evaluation value of each of the shots included in each of the selected scenes on the basis of the information provided corresponding to each of the shots; and

means for selecting the shots such that each of the evaluation values of the shots satisfies a predetermined second condition.

42. The video information editing device as claimed in claim 41, further comprising means for, if the length of a video produced by connecting selected shots exceeds a predetermined video time, modifying at least one of the predetermined first condition and second condition and repeating the precessing until the length of the video becomes equal to the predetermined video time.

43. The video information editing device as claimed in claim 41, wherein the predetermined first condition is that the absolute value of the scene evaluation value related to the scene reaches a predetermined threshold value, and

wherein with respect to the integration value of the evaluation value related to each of the scenes along the scene transition, the scene is a peak scene when the continuous increase of the integration value up to a scene exceeds a predetermined first gap value and the absolute value of the continuous decrease of the integration value

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after that scene exceeds a predetermined second gap value,

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

the threshold value is determined for each area between the peak or valley scene and the adjacent valley or peak scene.

44. The video information editing device as claimed in claim 41, wherein with respect to the integration value of the evaluation value related to each of the scenes along the scene transition, the scene is a peak scene when the continuous increase of the integration value up to a scene exceeds a predetermined first gap value and the absolute value of the continuous decrease of the integration value after that scene exceeds a predetermined second gap value,

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

the predetermined first condition is applied to the scenes on the upward slope to the peak from the adjacent valley before the peak and the scenes on the downward slope immediately after the peak, on the basis of the magnitude of the increase of the integration value of the valley scene and the adjacent peak scene after the valley, or on

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the basis of the ranking of the magnitude of the increase of the integration value.

45. The video information editing device as claimed in claim 43, wherein the predetermined first condition is that the absolute value of the scene evaluation value related to the scenes reaches a predetermined threshold value, and the threshold value is set in accordance with the upward slope from the valley to the adjacent peak or the downward slope from the peak to the adjacent valley.

46. The video information editing device as claimed in claim 43, wherein the predetermined first condition is that the absolute value of the scene evaluation value related to the scenes reaches a predetermined threshold value, and when each of the evaluation values is formed by a positive or negative value, the absolute value of the threshold value applied to the positive evaluation value is made equal to or smaller than the absolute value of the threshold value applied to the negative evaluation value.

47. The video information editing device as claimed in claim 41, wherein the shot evaluation value is a value obtained by adding a value obtained by carrying out predetermined weighting on each of the video characteristic items including at least the presence of a speech, the volume of a predetermined level or higher, the appearance of a specified actor/actress, or the special picture effect in the corresponding part of the regular edition video, with respect to each of the items.

48. The video information editing device as claimed in claim 47, wherein with respect to the shot evaluation value, the weighting value on the item related to the appearance of a specified actor/actress is made greater than the weighting values on

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49. A video information editing device comprising:

means for preparing an evaluation value of each of the shots or each of the scenes on the basis of the information provided corresponding to each of the shots or each of the scenes;

means for selecting from the regular edition video the shots or the scenes such that each of the evaluation values of the shots or the scenes satisfies a predetermined condition; and

means for coding data including at least the recording position information or the time lapse information corresponding to the selected shots or scenes and the corresponding evaluation value.

50. The video information editing device as claimed in claim 49, further comprising means for calculating the sum of the time of the selected shots or scenes on the basis of the recording position information or the time lapse information, and means for, if the sum of the calculated time exceeds a predetermined video time, modifying the predetermined condition and repeating the processing until the sum of the time is

51. The video information editing device as claimed in claim 49, wherein the predetermined condition is that the absolute value of the evaluation value related to the shot or the scene reaches a predetermined threshold value.

wherein with respect to the integration value of the evaluation value related to each of the scenes along the scene transition, the scene is a peak scene when the continuous increase of the integration value up to a scene exceeds a predetermined first gap value and the absolute value of the continuous decrease of the integration value after that scene exceeds a predetermined second gap value,

while the scene is a valley scene when the absolute value of the continuous decrease of the integration value up to a scene exceeds a predetermined third gap value and the continuous increase of the integration value after that scene exceeds a predetermined fourth gap value, and

the threshold value is determined for each area between the peak or valley scene and the adjacent valley or peak scene.

53. The video information editing device as claimed in claim 52, wherein the threshold value is set in accordance with the upward slope from the valley to the adjacent peak or the downward slope from the peak to the adjacent valley.

55. The video information editing device as claimed in claim 49, wherein the shot evaluation value is a value obtained by adding a value obtained by carrying out predetermined weighting on each of the video characteristic items including at least the presence of a speech, the volume of a predetermined level or higher, the appearance of a specified actor/actress, or the special picture effect in the corresponding part of the regular edition video, with respect to each of the items.

57. A video information editing device comprising:

means for delimiting at timing of a delimiting instruction a regular edition video, constituted by continuous dynamic images recorded along with recording position information or time lapse information, into shots as units of dynamic images or into scenes each containing at least one shot with the recording position information or the time lapse information associated with the shots or scenes;

means for preparing an evaluation value of each of the scenes on the basis of the information provided corresponding to each of the scenes;

means for selecting from the regular edition video the scenes such that each of the evaluation values of the scenes satisfies a predetermined first condition;

means for preparing an evaluation value of each of the shots included in each of the selected scenes on the basis of the information provided corresponding to each of the shots;

means for selecting the shots such that each of the evaluation values of the shots satisfies a predetermined second condition; and

means for coding the information of the recording position information or the time lapse information corresponding to each of the selected shots and data including at least the shot evaluation value.

58. The video information editing device as claimed in claim 57, further comprising means for, if the length of a video produced by connecting selected shots exceeds the predetermined video time, modifying at least one of the predetermined first condition and second condition and repeating the precessing until the length of the video becomes equal to the predetermined video time.

59. The video information editing device as claimed in claim 57, wherein the predetermined first condition is that the absolute value of the scene evaluation value related to the scene reaches a predetermined threshold value, and

wherein with respect to the integration value of the evaluation value related to

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the predetermined first condition is applied to the scenes on the upward slope

to the peak from the adjacent valley before the peak and the scenes on the downward slope immediately after the peak, on the basis of the magnitude of the increase of the integration value of the valley scene and the adjacent peak scene after the valley, or on the basis of the ranking of the magnitude of the increase of the integration value.

61. The video information editing device as claimed in claim 59, wherein the predetermined first condition is that the absolute value of the scene evaluation value related to the scenes reaches a predetermined threshold value, and the threshold value is set in accordance with the upward slope from the valley to the adjacent peak or the downward slope from the peak to the adjacent valley.

62. The video information editing device as claimed in claim 59, wherein the predetermined first condition is that the absolute value of the scene evaluation value related to the scenes reaches a predetermined threshold value, and when each of the evaluation values is formed by a positive or negative value, the absolute value of the threshold value applied to the positive evaluation value is made equal to or smaller than the absolute value of the threshold value applied to the negative evaluation value.

63. The video information editing device as claimed in claim 59, wherein the shot evaluation value is a value obtained by adding a value obtained by carrying out predetermined weighting on each of the video characteristic items including at least the presence of a speech, the volume of a predetermined level or higher, the appearance of a specified actor/actress, or the special picture effect in the corresponding part of the regular edition video, with respect to each of the items.

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64. The video information editing device as claimed in claim 63, wherein with respect to the shot evaluation value, the weighting value on the item related to the appearance of a specified actor/actress is made greater than the weighting values on the other items.

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